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X Practitioner(s) named below (if more than ten patent practi	titioners are to be named, then a customer number must be used):
Name	Registration Number
	43,660
Christopher P. Harris	39,334
Gary J. Pitzer	00,00 1
	the United States Patent and Trademark Office (USPTO) in connection with ed according to the USPTO assignment records or assignment documents
any and all patent applications assigned attached to this form in accordance with 37 CFR 3.73(b). Assignee Name and Address:	
Northrop Grumman Corporation	
1840 Century Park East	- 0400
Los Angeles, California 90067-2199	
may be completed by one of the practitioners authorized to act on behalf of the assignee, a Attorney isto be filed.	t under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is ch this form is used. The statement under 37 CFR 3.73(b) appointed in this form if the appointed practitioner is and must identify the application in which this Power of
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Name Terry J. Anderson	Date / Or
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PTO/SB/96 (08-03)
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Stuart T. Linsky, Scott A. Cooper, Christopher W. Walker, Ali R. Golshan Application No./Patent No.: 09/929,464 Filed/Issue Date: 14 August 2001 Entitled: Efficient Implementation of a Decision Directed Phase Locked Loop (DD-PLL) for Use with a Short Block Code in Digital Communication Systems Northrop Grumman Corporation _, a <u>corporation</u> (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) states that it is: 1. It the assignee of the entire right, title, and interest; or 2. \square an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is in the patent application/patent identified above by virtue of either: A. [] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame ____, or for which a copy thereof is attached. B. [/] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: 1. From: Stuart T. Linsky, et al. – To: TRW, Inc. The document was recorded in the United States Patent and Trademark Office at Reel 012388 , Frame 0810 , or for which a copy thereof is attached. 2. From: TRW, Inc. To: Northrop Grumman Corporation The document was recorded in the United States Patent and Trademark Office at ____, or for which a copy thereof is attached. Reel <u>013751</u>, Frame <u>0849</u> The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached. [] Additional documents in the chain of title are listed on a supplemental sheet. [] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Christopher P. Harris 24 September 2004 Typed or printed name Date 216.621.2234 Signature Telephone number Attorney of Record Title

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